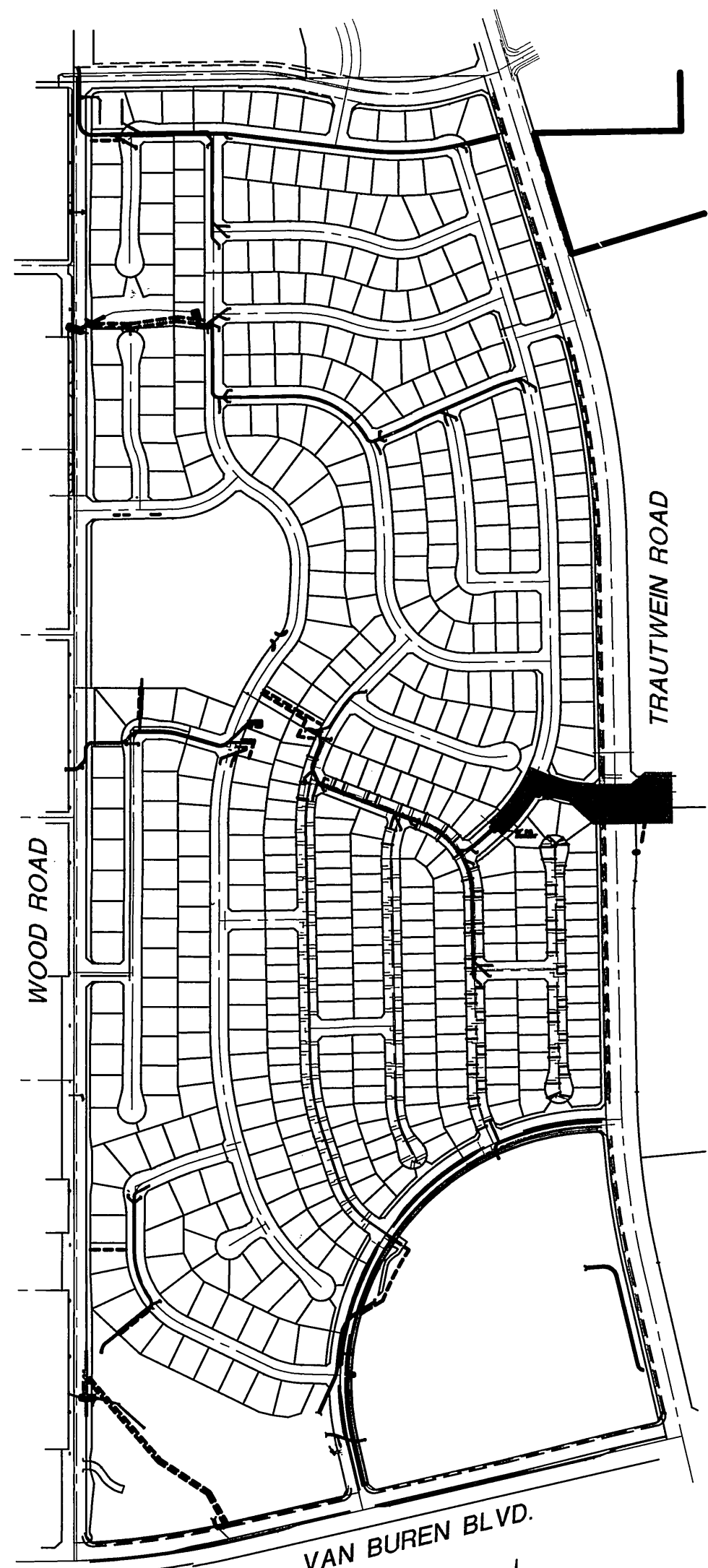


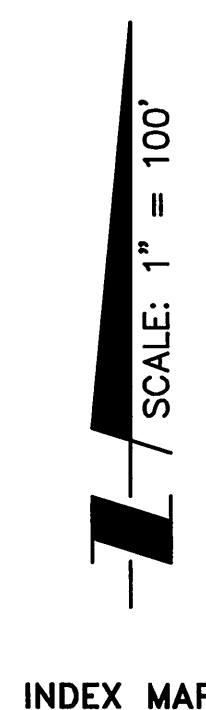
STORM DRAIN IMPROVEMENT PLANS

TRACT 28866-1 IN THE CITY OF RIVERSIDE

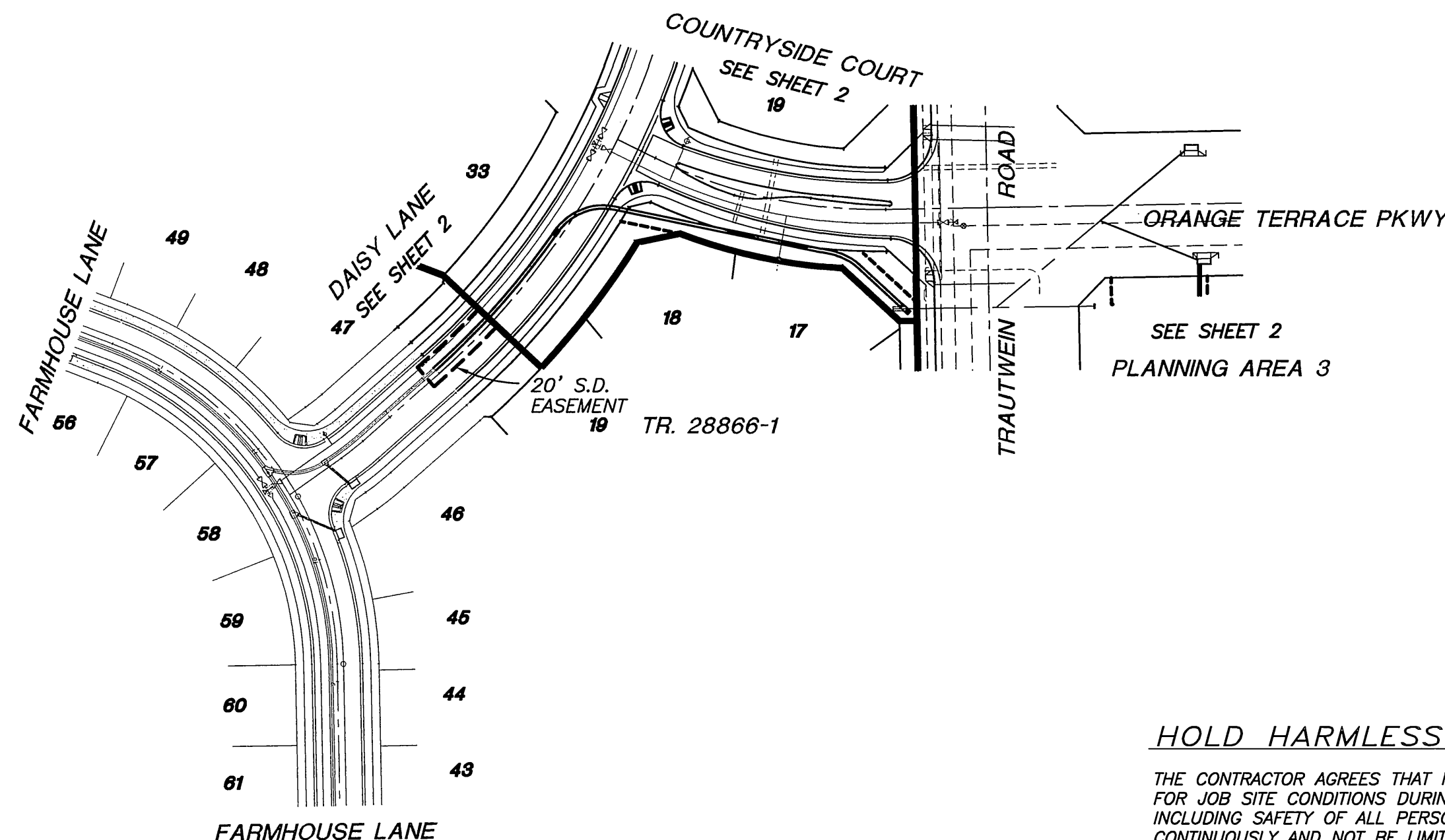
LINE "BC"



KEY MAP
N.T.S.



INDEX MAP



HOLD HARMLESS INDEMNIFICATION CLAUSE

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF RIVERSIDE, THE OWNER, AND THE PRIVATE ENGINEERS HARMLESS FOR ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

EXISTING UNDERGROUND STRUCTURES

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPE STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

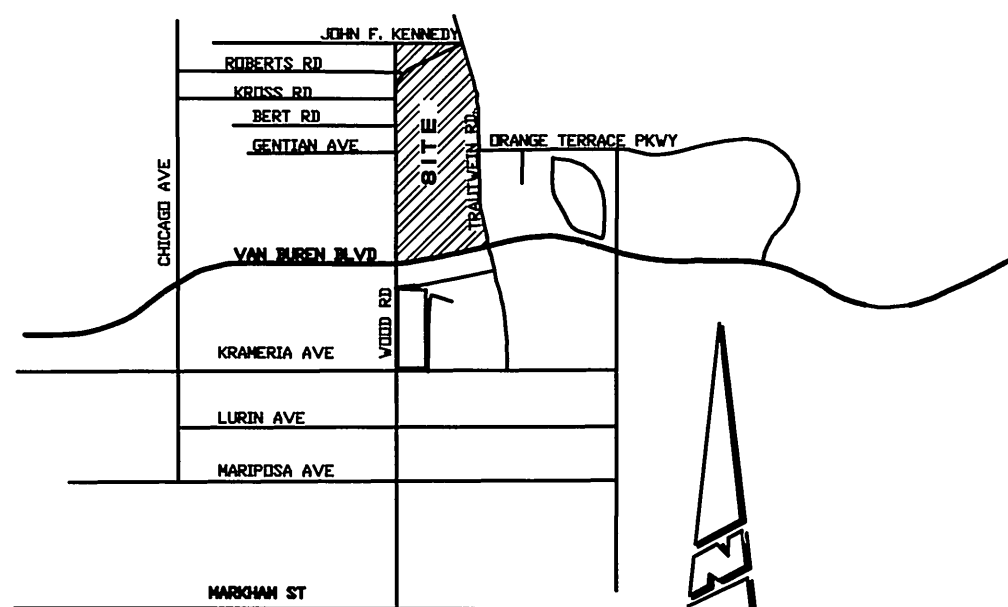
NOTICE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

GENERAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPT. OF PUBLIC WORKS STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- TRIM EDGE OF EXISTING PAVEMENT WHERE NEW PAVEMENT JOINS TO A SMOOTH, STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON PLAN AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
- ALL STATIONING REFERS TO CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED. STATIONING FOR LATERALS AND CONNECTOR PIPES REFER TO THE CENTERLINE-CENTERLINE INTERSECTION.
- HOURS OF OPERATION ARE 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- ANY TRAFFIC CONTROL STRIPING OBLITERATED AND OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.), PHONE No. 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
- BEFORE THE RIPRAP IS ACCEPTED AS PLACED AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
- ALL CROSS SECTIONS ARE TAKEN LOOKING UPSTREAM.
- CONTRACTOR TO VERIFY EXISTING STORM DRAIN ELEVATIONS PRIOR TO CONSTRUCTION.
- PIPE BEDDING SHALL BE PER CITY OF RIVERSIDE STD. DWG. No. 452, CASE 1.
- THE STORM DRAIN CONTRACTOR SHALL ADJUST STORM DRAIN MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
- PIPE SECTIONS TO BE BEVELED AT ONE OR BOTH ENDS AS NEEDED TO MEET SYSTEM DESIGN PARAMETERS. SECTIONS BEVELED IN THIS MANNER NORMALLY FIT TOGETHER ON A 90-, 45-, OR 22.5 FOOT RADIUS CURVE.

2	CONSTRUCT 24" RCP (D-LOAD PER PLAN)	24.00	LF
9	REMOVE INTERFERING PORTIONS OF EXISTING STORM DRAIN	1	LS
12	CONSTRUCT 30" RCP (D-LOAD PER PLAN)	438.35	LF
31	CONSTRUCT MANHOLE EZ PER CITY STD. No. 431	2	EA



VICINITY MAP
N.T.S.

REVIEW BY:
WESTERN MUNICIPAL WATER DISTRICT
for Non-Interference Compliance

SHEET 1 THROUGH 2

CIVIL ENGINEER: *[Signature]* R.C.E. 46212
DATE: 8/26/99

CITY BUSINESS TAX CERTIFICATION NO. 033595 EXP. DATE 4/2/00

CHARTER COMMUNICATIONS	CITY OF RIVERSIDE OVERHEAD & UNDERGROUND	TELEPHONE	SOUTHERN CALIFORNIA GAS COMPANY
<i>[Signature]</i> APPROVED BY	<i>[Signature]</i> APPROVED BY	<i>[Signature]</i> APPROVED BY	<i>[Signature]</i> APPROVED BY
8-20-99 DATE	8-23-99 DATE	8-23-99 DATE	8-23-99 DATE

The Keith Companies

TKC

APPROVED BY: *[Signature]*

DATE: 8/19/99
NED J. ARAUJO R.C.E. No. 57835
REGISTRATION EXPIRES 06-30-02



BENCHMARK

RIVERSIDE COUNTY BENCHMARK, STAMPED VBS-64
AT SOUTHWEST CORNER OF PLUMMER ROAD AND VAN BUREN
BOULEVARD, 299.0 FEET SOUTH OF VAN BUREN BOULEVARD,
200.0 FEET WEST OF PLUMMER ROAD, ON THE TOP OF A 4.0 FOOT x 10.0
FOOT GRANITE BOULDER A BRASS DISK FLUSH AND MARKED.
ELEV. 1636.14

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY
ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE
REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE
CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT,
INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT
SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL
WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO
DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY
AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE
OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE
NEGLECT OF DESIGN PROFESSIONAL.

Underground
Service Alert
Call: TOLL FREE
1-800
227-2600



CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	8/2/99	<i>[Signature]</i>
PARK DEPARTMENT		
TRAFFIC DIVISION	8/8/99	<i>[Signature]</i>
P.W. ENGR. MANAGER		
STREET SERVICES	8-23-99	<i>[Signature]</i>

STORM DRAIN IMPROVEMENT PLANS

TRACT 28866-1

LINE "BC"

TITLE SHEET

ACCOUNT NO. 31414.000

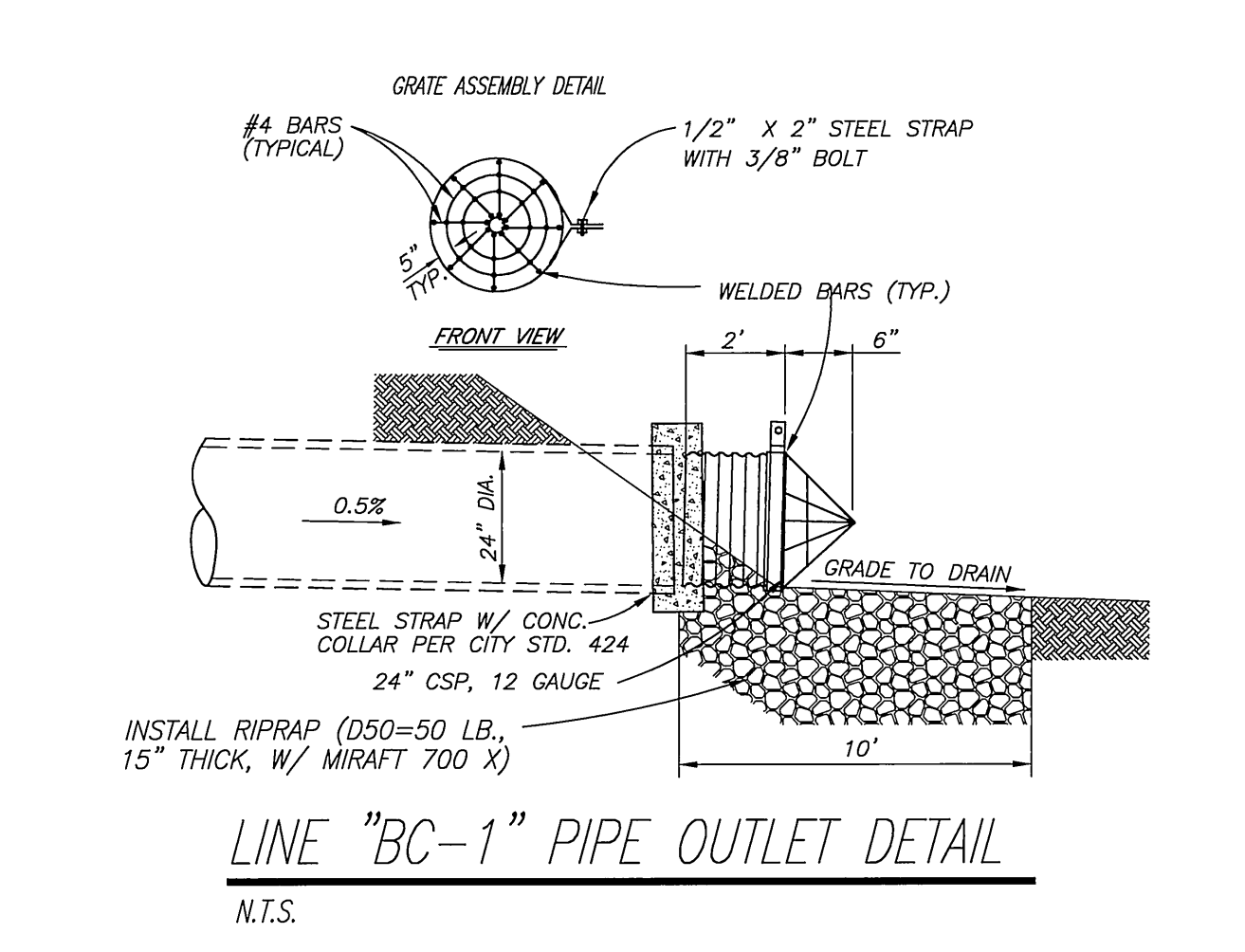
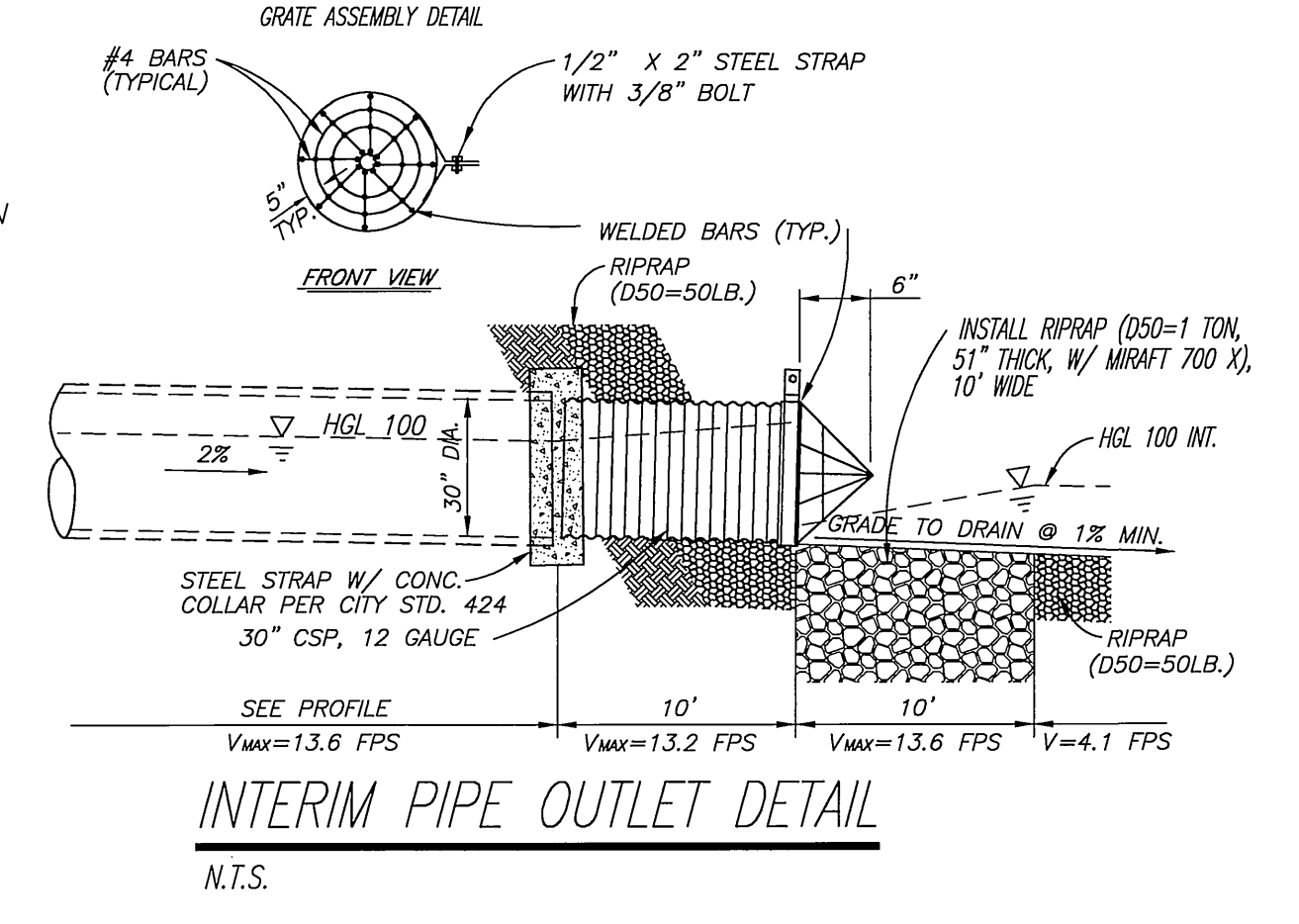
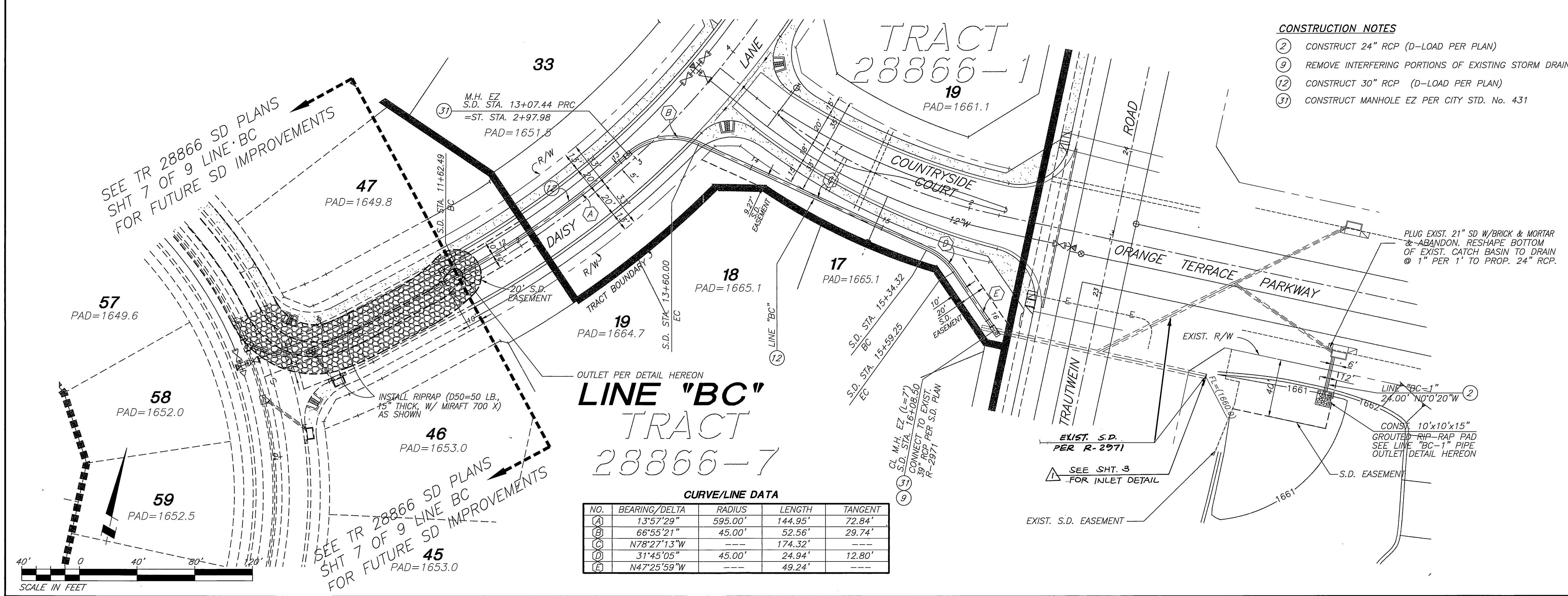
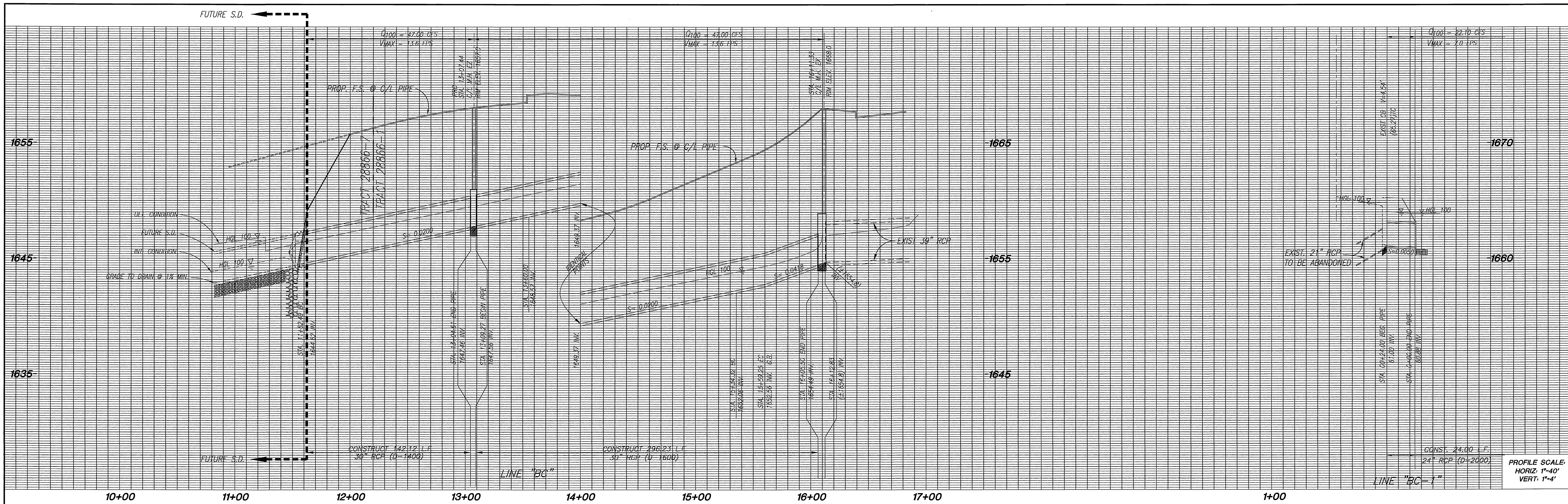
D-668

SHEET 1 OF 3

HORIZ. SCALE:

VERT. SCALE:

INDEXED 9-15-99



Underground Service Alert

Call: TOLL FREE 1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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BENCHMARK

RIVERSIDE COUNTY BENCHMARK, STAMPED VBB-64 AT SOUTHWEST CORNER OF PLUMMER ROAD AND VAN BUREN BOULEVARD, 209.0 FEET WEST OF PLUMMER ROAD, ON THE TOP OF A 4.0 FOOT x 10.0 FOOT GRANITE BOULDER A BRASS DISK FLUSH AND MARKED. ELEV. 1638.14

Professional Engineer Seal

Civil
Ned J. Araujo
No. 057835
Exp. 6-30-02

The Keith Companies TKC

22800 Cactus Avenue, Suite 300, Moreno Valley, CA 92553-0024 (909) 933-0234

APPROVED BY: *[Signature]*
DATE: 9/2/99

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]*
DATE: 9/2/99

STORM DRAIN IMPROVEMENT PLANS

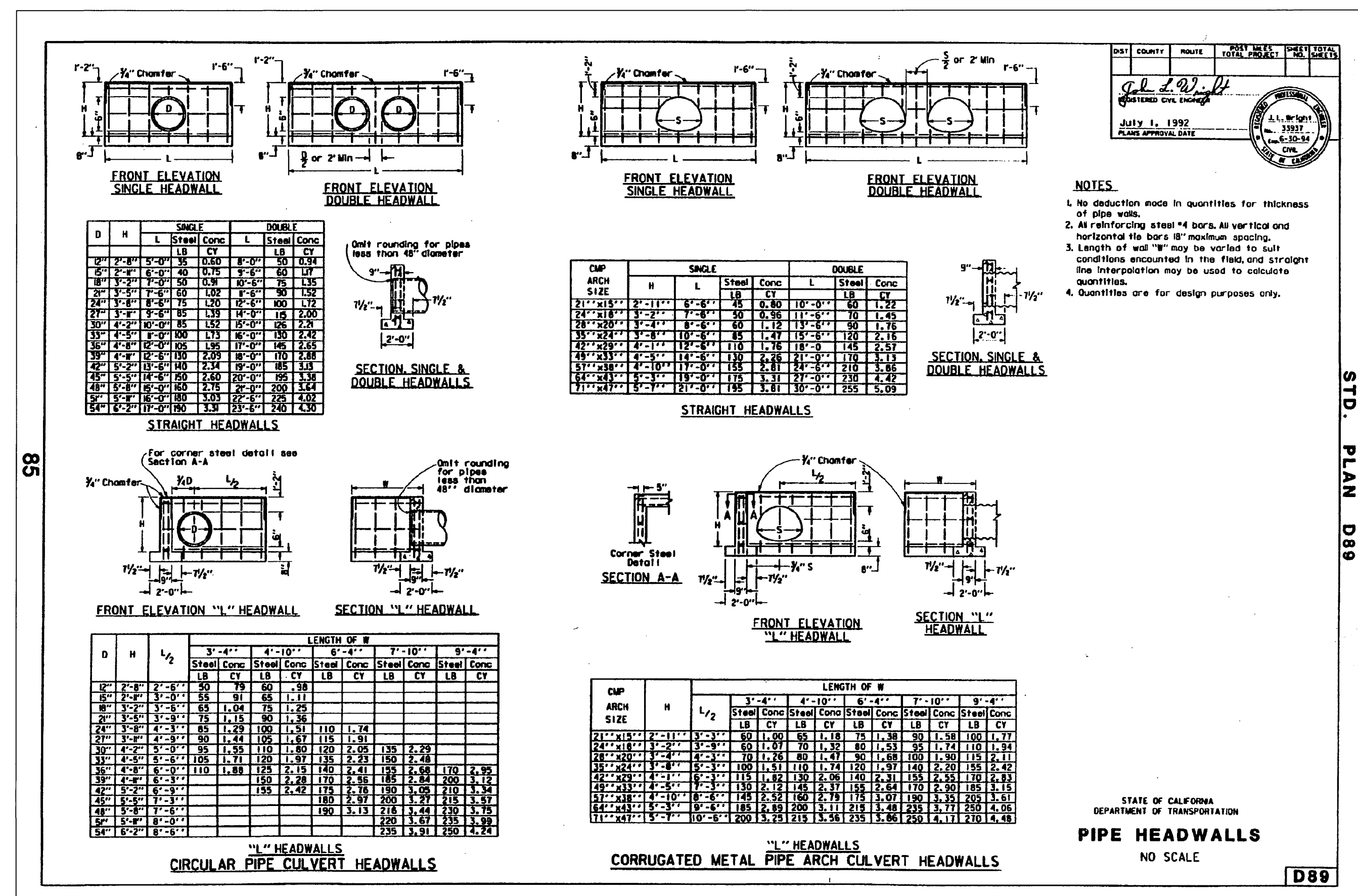
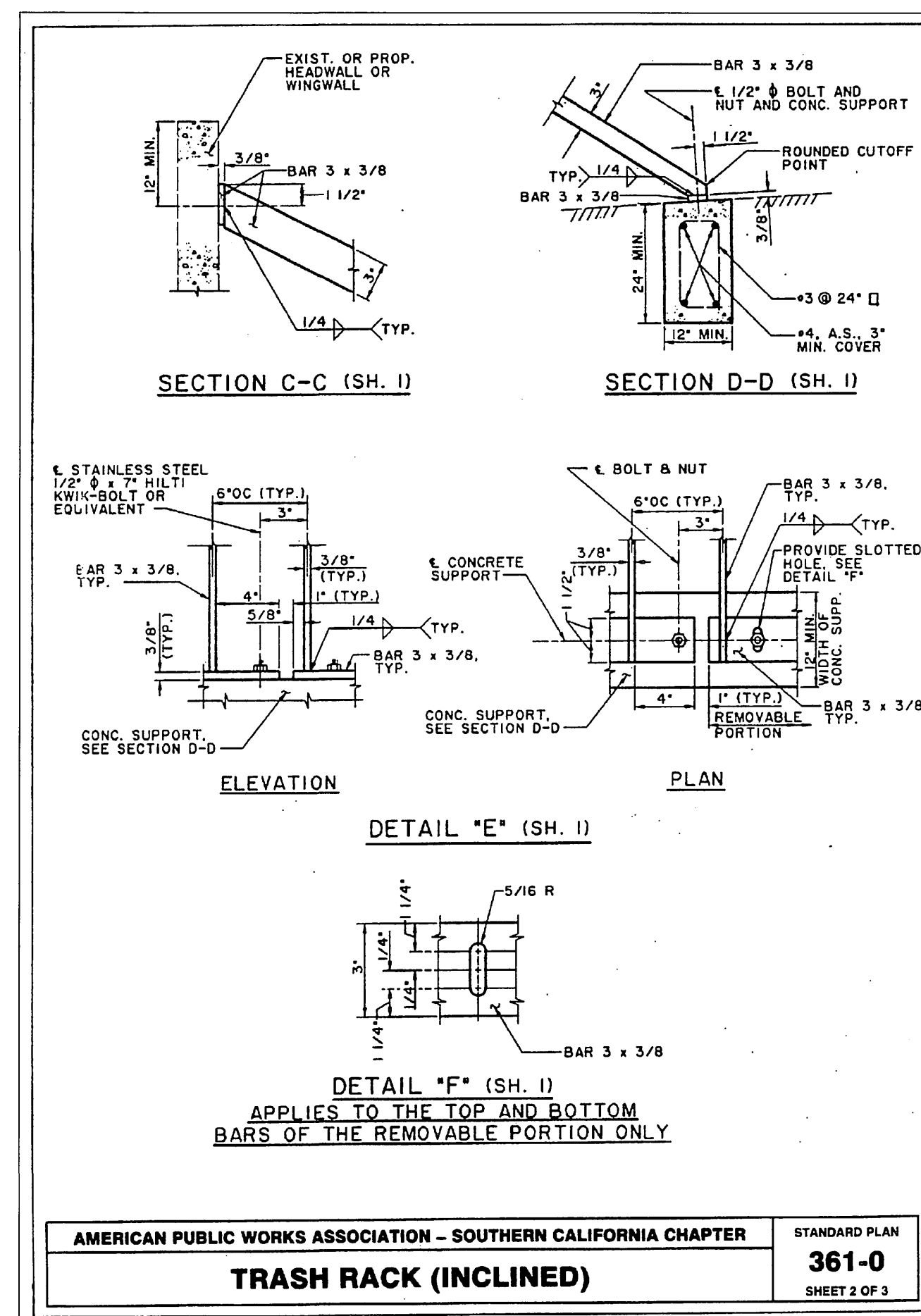
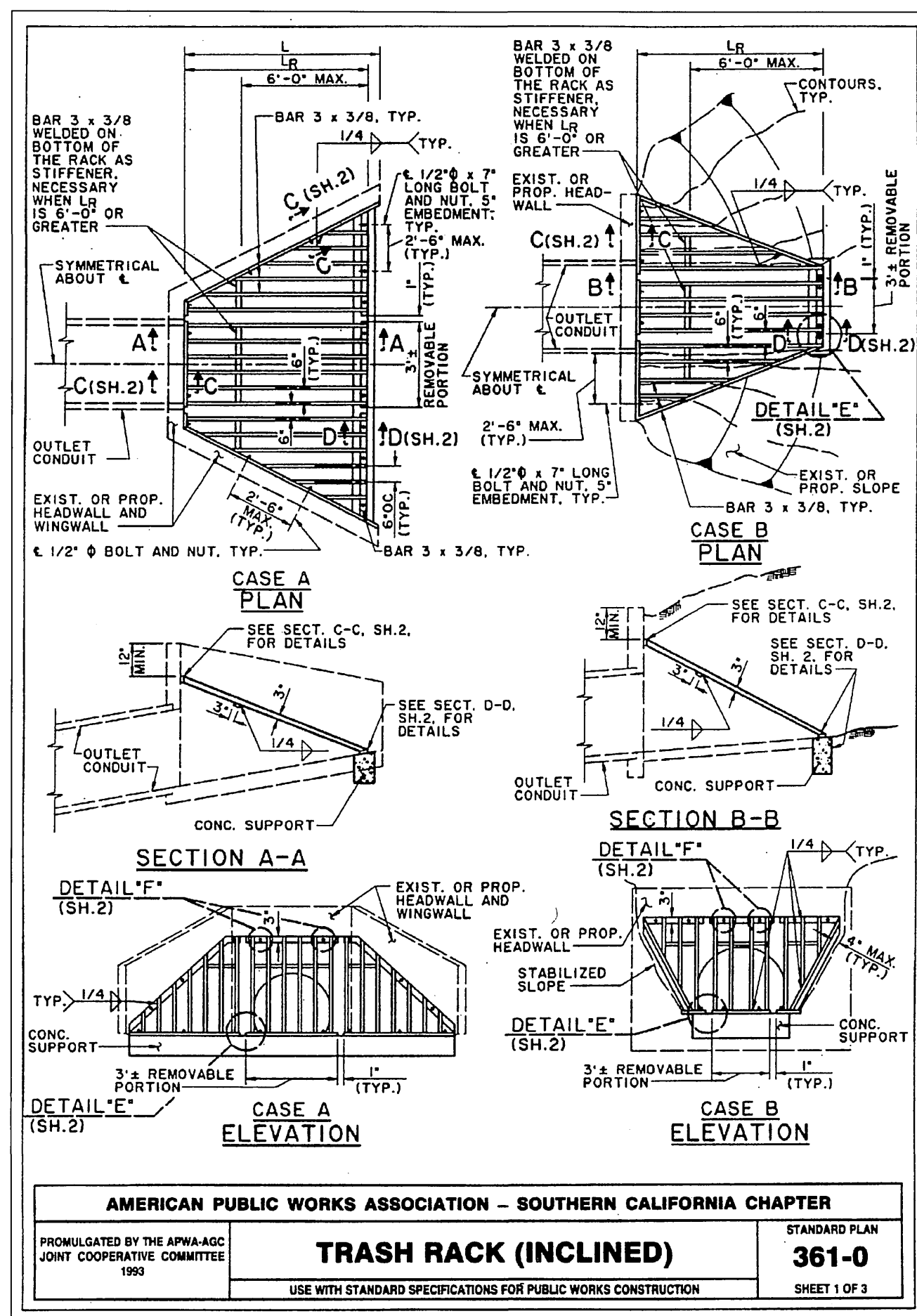
TRACT 28866-1
LINE "BC"

SHEET 2 OF 3

ACCOUNT NO. 31414.000

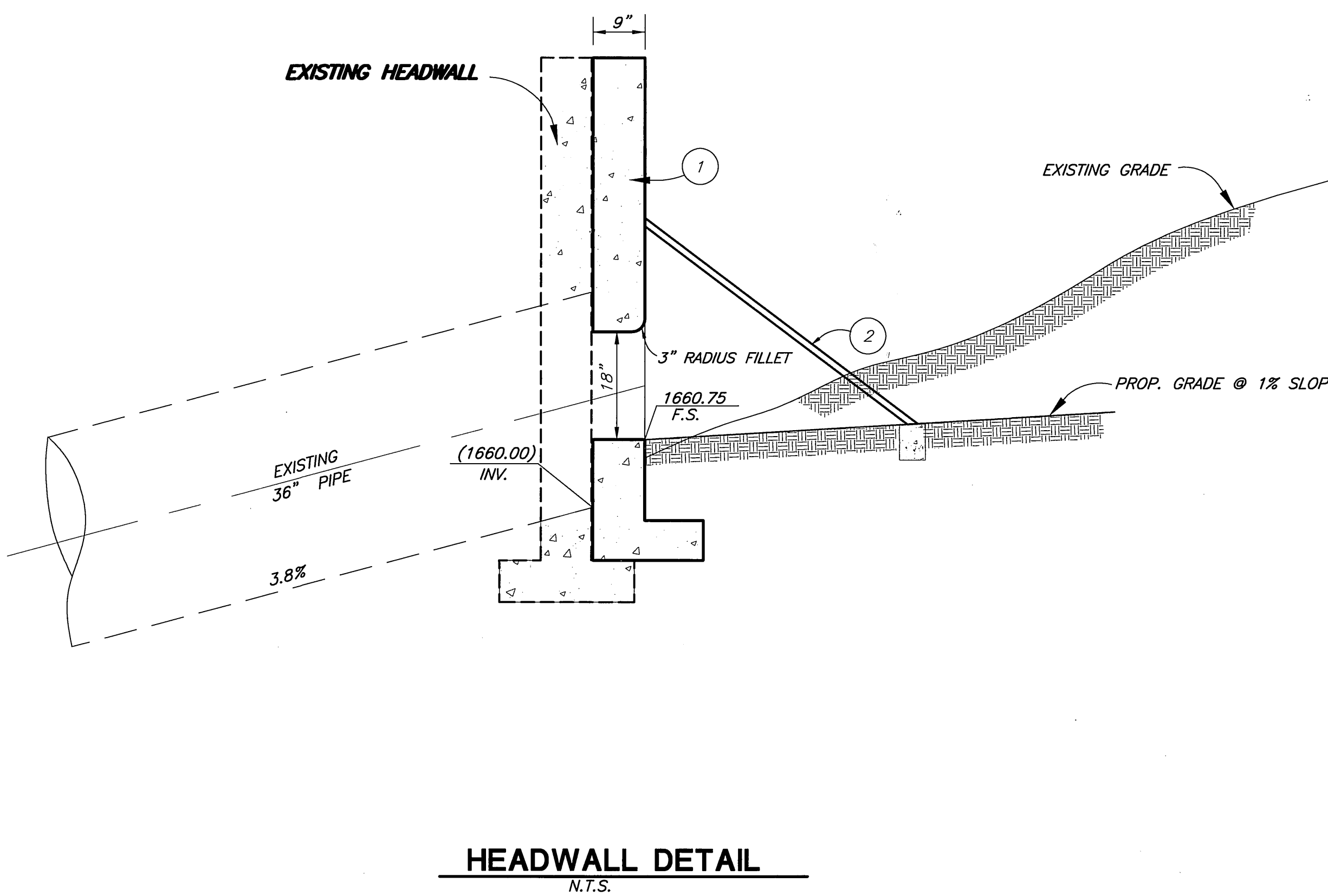
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INDEXED 9-15-99 LPH

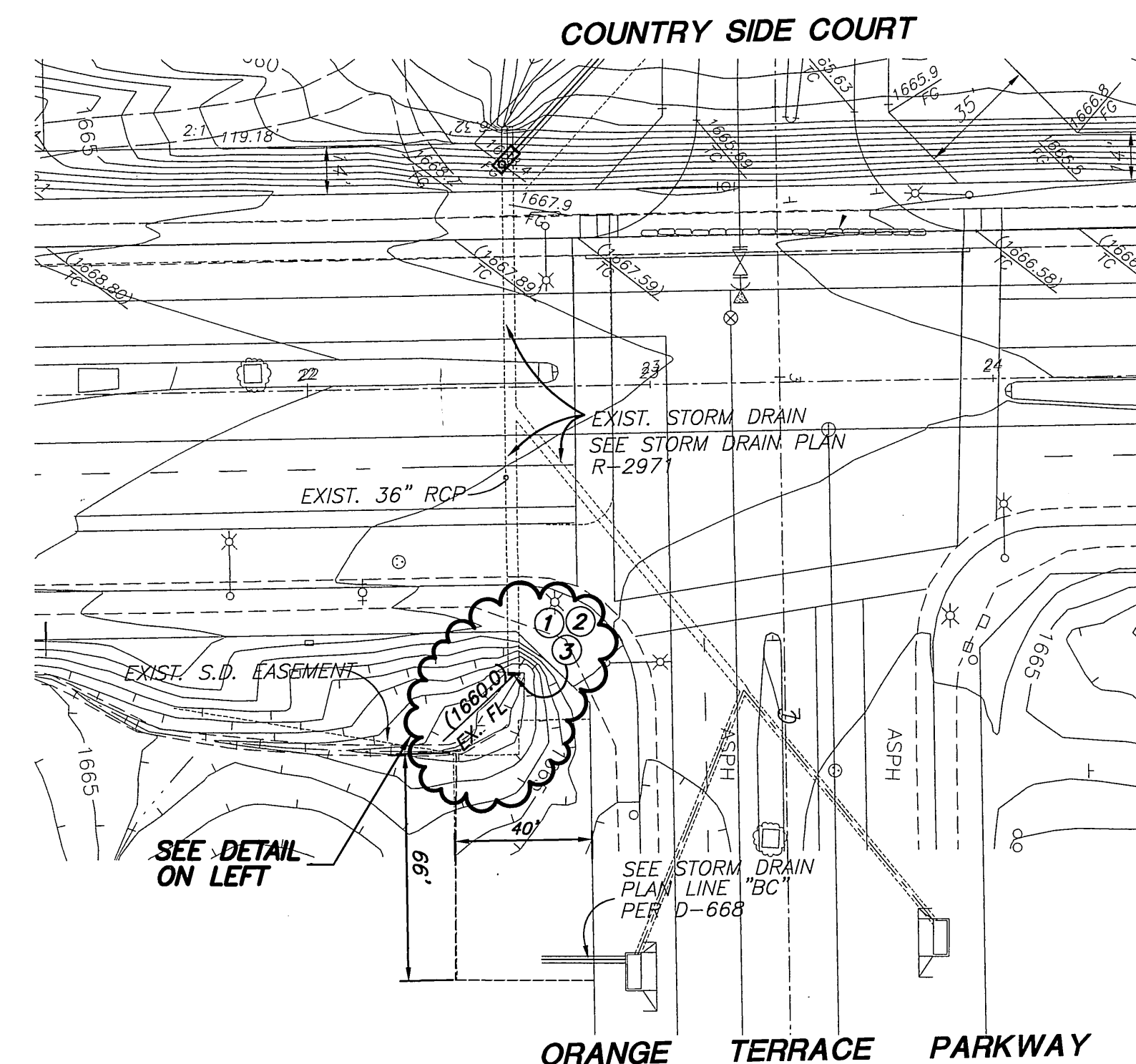


TRASH RACK (INCLINED)
GENERAL NOTES:

1. MAXIMUM SIZE OF OUTLET TO BE USED WITH THIS RACK IS 48" PIPE OR 48" WIDE RCB. MAXIMUM LENGTH OF RACK L_R IS 10'-0".
2. L_R CAN BE ADJUSTED SO THAT THE SLOPE OF THE RACK IS APPROXIMATELY 2 HORIZONTAL TO 1 VERTICAL.
3. THE CONCRETE SUPPORT IS NOT NECESSARY IF EXISTING OR PROPOSED INLET STRUCTURE HAS ADEQUATE SUPPORT CUTOFF WALL. IT DOES NOT ELIMINATE THE NEED FOR A CUTOFF WALL BUT CAN BE INTEGRATED WITH ONE WHEN REQUIRED AT A PARTICULAR INSTALLATION.
4. GALVANIZE ALL EXPOSED FERROUS PARTS AFTER FABRICATION.
5. IF FIELD WELDS ARE NECESSARY, USE GALVICON, GALVALLOY OR AGENCY APPROVED EQUAL FOR COATING.
6. ALL BOLTS SHALL BE 1/2" IN DIAMETER AND 7" IN LENGTH. ON REMOVABLE PORTION OF THE RACK, USE 300 SERIES STAINLESS STEEL BOLTS AND NUTS. FOR WINGWALL BOLTS FOR CASE A, AND WHERE HEADWALL AND WINGWALL ARE EXISTING, HILTI KWIK-BOLT OR EQUIVALENT CAN BE USED.



1. CONSTRUCT HEADWALL PER CALTRANS STD. 089 SEE THIS SHEET
2. CONSTRUCT TRASH RACK PER APWA STD. 361-0 CASE B SEE THIS SHEET
3. REMOVE INTERFERING PORTIONS OF EXISTING STRUCTURE.



Underground Service Alert
 Call: TOLL FREE
1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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APPROVED BY:
 DATE: **2/29/00**
 REGISTRATION EXPIRES 06-30-02

The Keith Companies **TKC**

2200 Ocean Avenue, Suite 300, Marina del Rey, CA 90251-8024 (310) 653-0234

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY:
 DATE: **3/24/00**
 PUBLIC WORKS DIRECTOR

STORM DRAIN IMPROVEMENT PLAN
TRACT 28866-1
LINE 'BC'
HEADWALL & TRASH RACK DETAIL

HORIZ. SCALE: VERT. SCALE:

ACCOUNT NO. 31414.000
D-668
 SHEET **3** OF **3**